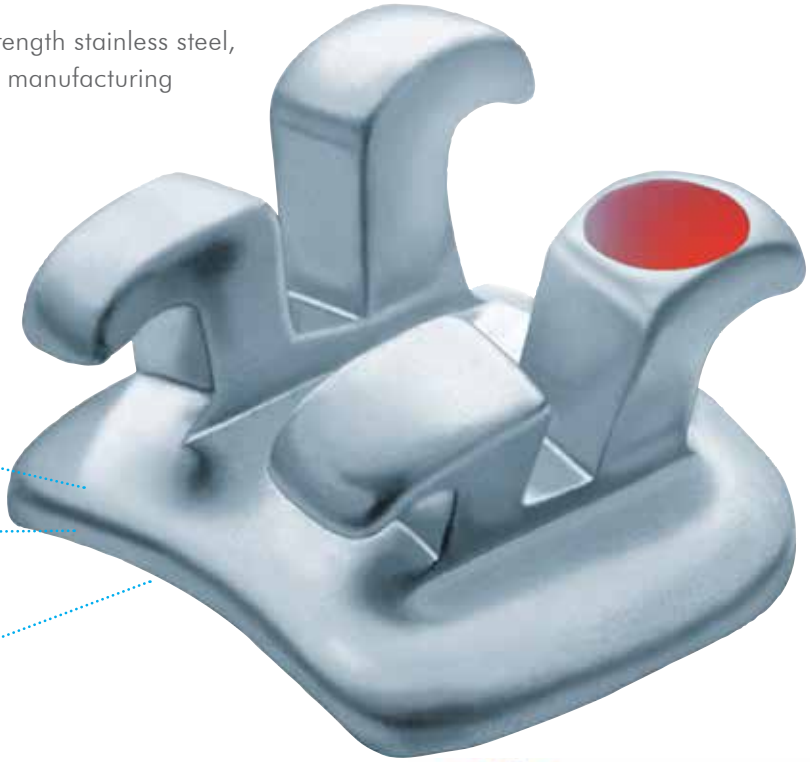
ECONOLINE™ Bracket

Biomechanical precision within a thousandth of an inch tolerance

Clean simple design lines and aerospace strength stainless steel, permit us to continue using the most precise manufacturing method - micro milling (CNC)

The prescription can now be fully expressed to its full capabilities, with precise management of mechanics, which minimizes wire bending for the ideal archwire.



How to achieve an affordable, strong, and reliable bracket with precise management of mechanics.

DESIGN CHALLENGE WITH ENGINEER CLAUS SCHENDELL

Complicated bracket design has mixed with wax and polymers and is lead the majority of manufacturers to turn to a method called metal injection molding (MIM). In this process, metal powder is injected into a mold where the metal is shaped into an orthodontic bracket. This metal powder produces a significantly weaker material and the shrinking process of the bracket produces a less-precise bracket with varying angles and degrees of torque. I streamlined and simplified the bracket design, I cut costs, I used strong reliable stainless steel and now I could use the most precise method of manufacturing - micro milling (CNC). Ultimately, I succeeded - perfect material, design and ultra precise manufacturing, produced a more reliable movement of teeth at an affordable price.

Superior adhesive retention
All adenta brackets offer superior adhesive retention, due to the mechanical undercuts in the bonding base. *study AJO v:124

Precise bracket placement
All adenta brackets feature an anatomical 3D curvature on the base providing a precise fit to the tooth. All our brackets are manufactured with a .0006" tolerance p that is 5 x smaller than a human hair

Ultra Small In/Out
The ECONOLINE™ Bracket is a one-piece-milled bracket, no base pad is added and therefore offers an ultra-small In/Out.

True One-Piece-Bracket
No separation failures
No possibility of separation failure as the base and hooks are milled into the bracket, creating extra strength and durability.

ECONOLINE™ BRACKETS Roth*

UPPER	Torque	Ang	In/Out	Width	U - R .018	U - L .018	U - R .022	U - L .022
Central	12°	5°	0.79	3.45	05-11	05-21	55-11	55-21
Lateral	8°	9°	1.28	2.90	05-12	05-22	55-12	55-22
Cuspid	0°	11°	0.69	3.15	05-13	05-23	55-13	55-23
Cuspid w hook	0°	11°	0.69	3.15	05-13/H	05-23/H	55-13/H	55-23/H
1. Bicuspid	-7°	0°	0.69	3.20	05-14/25	05-14/25	55-14/25	55-14/25
1. Bicuspid w hook	-7°	0°	0.69	3.20	05-14/15/H	05-24/25/H	55-14/15/H	55-24/25/H
2. Bicuspid	-7°	0°	0.69	3.20	05-14/25	05-14/25	55-14/25	55-14/25
2. Bicuspid w hook	-7°	0°	0.69	3.20	05-14/15/H	05-24/25/H	55-14/15/H	55-24/25/H

LOWER	Torque	Ang	In/Out	Width	L- R .018	L - L .018	L - R .022	L - L .022
Anterior	-1°	0°	1.28	2.35	05-31/42	05-31/42	55-31/42	55-31/42
Cuspid	-11°	5°	0.64	3.15	05-43	05-33	55-43	55-33
Cuspid w hook	-11°	5°	0.64	3.15	05-43/H	05-33/H	55-43/H	55-33/H
1. Bicuspid	-17°	0°	0.50	3.20	05-44	05-34	55-44	55-34
1. Bicuspid w hook	-17°	0°	0.50	3.20	05-44/H	05-34/H	55-44/H	55-34/H
2. Bicuspid	-22°	0°	0.50	3.20	05-45	05-35	55-45	55-35
2. Bicuspid w hook	-22°	0°	0.50	3.20	05-45/H	05-35/H	55-45/H	55-35/H

HIGH TORQUE	Torque	Ang	In/Out	Width	Right .018	Left .018	Right .022	Left .022
Upper Central	17°	4°	0.79	3.45	05-11-17	05-21-17	55-11-17	55-21-17
Upper Lateral	10°	8°	0.90	2.90	05-12-10	05-22-10	55-12-10	55-22-10
Lower Anteriors	-6°	0°	1.20	2.35	05-31/42-6	05-31/42-6	155-31/42-6	55-31/42-6

Cases-Single tray or 10-case tray

1 case .018	10 case .018	1 case .022	10 case .022	Description
05-001	05-001/10	55-001	55-001/10	ECONOLINE™ Bracket ROTH Upper + Lower 5-5
05-001/H	05-001/H/10	55-001/H	55-001/H/10	ECONOLINE™ Bracket ROTH Upper + Lower 5-5 w. Hook on 3
05-001/H345	05-001/H345/10	55-001/H345	55-001/H345/10	ECONOLINE™ Bracket ROTH Upper + Lower 5-5 w. Hook on 3-4-5

ECONOLINE™ BRACKETS MBT (McLaughlin/Bennett/Trevisi)*

UPPER	Torque	Ang	In/Out	Width	U - R .018	U - L .018	U - R .022	U - L .022
Central	17°	4°	0.79	3.45	06-11	06-21	66-11	66-21
Lateral	10°	8°	0.90	2.90	06-12	06-22	66-12	66-22
Cuspid	-7°	8°	0.80	3.15	06-13	06-23	66-13	66-23
Cuspid w hook	0°	8°	0.69	3.15	06-13/H	06-23/H	66-13/H	66-23/H
1. Bicuspid	-7°	0°	0.69	3.20	06-14/25	06-14/25	66-14/25	66-14/25
1. Bicuspid w hook	-7°	0°	0.69	3.20	06-14/15/H	06-24/25/H	66-14/15/H	66-24/25/H
2. Bicuspid	-7°	0°	0.69	3.20	06-14/25	06-14/25	66-14/25	66-14/25
2. Bicuspid w hook	-7°	0°	0.69	3.20	06-14/15/H	06-24/25/H	66-14/15/H	66-24/25/H

LOWER	Torque	Ang	In/Out	Width	L- R .018	L - L .018	L - R .022	L - L .022
Anterior	-6°	0°	1.20	2.35	06-31/42	06-31/42	66-31/42	66-31/42
Cuspid	-6°	3°	0.80	3.15	06-43	06-33	66-43	66-33
Cuspid w hook	0°	3°	0.80	3.15	06-43/H	06-33/H	66-43/H	66-33/H
1. Bicuspid	-12°	0°	0.50	3.20	06-44	06-34	66-44	66-34
1. Bicuspid w hook	-12°	0°	0.50	3.20	06-44/H	06-34/H	66-44/H	66-34/H
2. Bicuspid	-17°	0°	0.50	3.20	06-45	06-35	66-45	66-35
2. Bicuspid w hook	-17°	0°	0.50	3.20	06-45/H	06-35/H	66-45/H	66-35/H

Cases Single tray or 10-case tray

1 case .018	10 case .018	1 case .022	10 case .022	Description
06-001	06-001/10	66-001	66-001/10	ECONOLINE™ Bracket MBT Upper + Lower 5-5
06-001/H	06-001/H/10	66-001/H	66-001/H/10	ECONOLINE™ Bracket MBT Upper + Lower 5-5 w. Hook on 3
06-001/H345	06-001/H345/10	66-001/H345	66-001/H345/10	ECONOLINE™ Bracket MBT Upper + Lower 5-5 w. Hook on 3-4-5

*The adenta version of this technique does not indicate endorsement by the doctor. They do not claim to be a duplication of any other.

ECONOLINE™ BRACKETS Andrews*

UPPER	Torque	Ang	In/Out	Width	U - R .018	U - L .018	U - R .022	U - L .022
Central	2°	5°	0.79	3.45	03-11	03-21	33-11	33-21
Lateral	3°	9°	1.28	2.90	03-12	03-22	33-12	33-22
Cuspid	-7°	11°	0.69	3.15	03-13	03-23	33-13	33-23
Cuspid w hook	-7°	11°	0.69	3.15	03-13/H	03-23/H	33-13/H	33-23/H
1. Bicuspid	-7°	2°	0.69	3.20	03-14/25	03-14/25	33-14/25	33-14/25
1. Bicuspid w hook	-7°	2°	0.69	3.20	03-14/15/H	03-24/25/H	33-14/15/H	33-24/25/H
2. Bicuspid	-7°	2°	0.69	3.20	03-14/25	03-14/25	33-14/25	33-14/25
2. Bicuspid w hook	-7°	2°	0.69	3.20	03-14/15/H	03-24/25/H	33-14/15/H	33-24/25/H

LOWER	Torque	Ang	In/Out	Width	L- R .018	L - L .018	L - R .022	L - L .022
Anterior	-1°	2°	1.28	2.35	03-41/42	03-31/32	33-41/42	33-31/32
Cuspid	-11°	5°	0.64	3.15	03-43	03-33	33-43	33-33
Cuspid w hook	-11°	5°	0.64	3.15	03-43/H	03-33/H	33-43/H	33-33/H
1. Bicuspid	-17°	2°	0.50	3.20	03-44	03-34	33-44	33-34
1. Bicuspid w hook	-17°	2°	0.50	3.20	03-44/H	03-34/H	33-44/H	33-34/H
2. Bicuspid	-22°	2°	0.50	3.20	03-45	03-35	33-45	33-35
2. Bicuspid w hook	-22°	2°	0.50	3.20	03-45/H	03-35/H	33-45/H	33-35/H

Cases-Single tray or 10-case tray

1 case .018	10 case .018	1 case .022	10 case .022	Description
03-001	03-001/10	33-001	33-001/10	ECONOLINE™ Bracket ANDREWS Upper + Lower 5-5
03-001/H	03-001/H/10	33-001/H	33-001/H/10	ECONOLINE™ Bracket ANDREWS Upper + Lower 5-5 w. Hook on 3
03-001/H345	03-001/H345/10	33-001/H345	33-001/H345/10	ECONOLINE™ Bracket ANDREWS Upper + Lower 5-5 w. Hook on 3-4-5

ECONOLINE™ BRACKETS Ricketts*

UPPER	Torque	Ang	In/Out	Width	U - R .018	U - L .018
Central	22°	0°	0.80	3.45	02-11	02-21
Lateral	14°	8°	0.80	2.90	02-12	02-22
Cuspid	7°	5°	0.80	3.15	02-13	02-23
Cuspid w hook	7°	5°	0.80	3.15	02-13/H	02-23/H
1. Bicuspid	0°	0°	0.80	3.20	02-14/25	02-14/25
1. Bicuspid w hook	0°	0°	0.80	3.20	02-14/15/H	02-24/25/H
2. Bicuspid	0°	0°	0.80	3.20	02-14/25	02-14/25
2. Bicuspid w hook	0°	0°	0.80	3.20	02-14/15/H	02-24/25/H

LOWER	Torque	Ang	In/Out	Width	L- R .018	L - L .018
Anterior	0°	0°	0.80	2.35	02-31/42	02-31/42
Cuspid	7°	5°	0.80	3.15	02-43	02-33
Cuspid w hook	7°	5°	0.80	3.15	02-43/H	02-33/H
1. Bicuspid	0°	0°	0.80	3.20	02-34/45	02-34/45
1. Bicuspid w hook	0°	0°	0.80	3.20	02-44/45/H	02-34/35/H
2. Bicuspid	0°	0°	0.80	3.20	02-34/45	02-34/45
2. Bicuspid w hook	0°	0°	0.80	3.20	02-44/45/H	02-34/35/H

Cases-Singel tray or 10-case tray

1 case .018	10 case .018	Description
02-001	02-001/10	ECONOLINE™ Bracket RICKETTS Upper + Lower 5-5
02-001/H	02-001/H/10	ECONOLINE™ Bracket RICKETTS Upper + Lower 5-5 w. Hook on 3
02-001/H345	02-001/H345/10	ECONOLINE™ Bracket RICKETTS Upper + Lower 5-5 w. Hook on 3-4-5

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ECONOLINE™ BRACKETS Standard Edgewise*

UPPER	Torque	Ang	In/Out	Width	U - R .018	U - L .018	U - R .022	U - L .022
Central	0°	0°	0.75	3.45	01-11/21	01-11/21	11-11/21	11-11/21
Lateral	0°	0°	0.75	2.90	01-12/22	01-12/22	11-12/22	11-12/22
Cuspid	0°	0°	0.75	3.15	01-13/43	01-13/43	01-13/43	01-13/43
Cuspid w hook	0°	0°	0.75	3.15	01-13/33/H	01-13/33/H	01-13/33/H	01-13/33/H
1. Bicuspid	0°	0°	0.75	3.20	01-14/45	01-14/45	11-14/45	11-14/45
1. Bicuspid w hook	0°	0°	0.75	3.20	01-14/15/34/35/H	01-14/15/34/35/H	01-14/15/34/35/H	01-14/15/34/35/H
2. Bicuspid	0°	0°	0.75	3.20	01-14/45	01-14/45	11-14/45	11-14/45
2. Bicuspid w hook	0°	0°	0.75	3.20	01-14/15/34/35/H	01-14/15/34/35/H	01-14/15/34/35/H	01-14/15/34/35/H

LOWER	Torque	Ang	In/Out	Width	L- R .018	L - L .018	L - R .022	L - L .022
Anterior	0°	0°	0.75	2.35	01-31/42	01-31/42	11-31/42	11-31/42
Cuspid	0°	0°	0.75	3.15	01-13/43	01-13/43	01-13/43	01-13/43
Cuspid w hook	0°	0°	0.75	3.15	01-23/43/H	01-23/43/H	01-23/43/H	01-23/43/H
1. Bicuspid	0°	0°	0.75	3.20	01-14/45	01-14/45	01-14/45	01-14/45
1. Bicuspid w hook	0°	0°	0.75	3.20	01-24/25/44/45/H	01-24/25/44/45/H	01-24/25/44/45/H	01-24/25/44/45/H
2. Bicuspid	0°	0°	0.75	3.20	01-14/45	01-14/45	01-14/45	01-14/45
2. Bicuspid w hook	0°	0°	0.75	3.20	01-24/25/44/45/H	01-24/25/44/45/H	01-24/25/44/45/H	01-24/25/44/45/H

Cases-Single tray or 10-case tray

1 case .018	10 case .018	1 case .022	10 case .022	Description
01-001	01-001/10	11-001	11-001/10	ECONOLINE™ Bracket STANDARD EDGEWISE Upper + Lower 5-5
01-001/H	01-001/H/10	11-001/H	11-001/H/10	ECONOLINE™ Bracket STANDARD EDGEWISE Upper + Lower 5-5 w. Hook on 3
01-001/H345	01-001/H345/10	11-001/H345	11-001/H345/10	ECONOLINE™ Bracket STANDARD EDGEWISE Upper + Lower 5-5 w. Hook on 3-4-5

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